1. **Heartbeat API**
2. **Create**
   * Request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Method** | | **Url** | | |
| **POST** | | api/heartbeat | | |
| Type | Params | | Values | Description |
| HEADER | **Accept-Language** | | string | Language which messages responded from server will be formatted.   * Default : en-US |
| HEADER | **Email** | | string | Email which is used for accessing server api. |
| HEADER | **Password** | | string | Password of email |
| BODY | **Rate** | | double | Heartbeat rate.   * **Min : 0** * **Max : 208** |
| BODY | **Time** | | double | Time when measurement was done.   * **Year > 1916** |
| BODY | **Note** | | string | Note when make measurement.   * **Not required** * **Max : 128** |

* + Response

|  |  |
| --- | --- |
| Status | Content |
| **200** | {  "Heartbeat": {  "Id": 0,  "Created": 0,  "LastModified": 0,  "Time": 0,  "Note": "",  "Rate": 0  }  } |
| **401**  No email or password contained in request header. Front-end should redirect user to login page. | {  "Error": "W012"  } |
| **401**  Account has been disabled. | {  "Error": "W002"  } |
| **401**  Account is pending. | {  "Error": "W001"  } |
| **403**  Account is not allowed to access the function. | {  "Error": "W013"  } |

1. **Edit**
   * Request

|  |  |
| --- | --- |
| **Method** | **Url** |
| **PUT** | api/heartbeat |

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **Params** | **Values** | **Description** |
| HEADER | **Accept-Language** | string | Language which messages responded from server will be formatted.   * Default : en-US |
| HEADER | **Email** | string | Email which is used for accessing server api. |
| HEADER | **Password** | string | Password of email |
| URL | **Id** | int | Id of heartbeat note.   * **Required** * **Default : 0** |
| BODY | **Rate** | double | Heartbeat rate.   * **Min : 0** * **Max : 208** |
| BODY | **Time** | double | Time when measurement was done.   * **Year > 1916** |
| BODY | **Note** | string | Note when make measurement.   * **Not required**   **Max : 128** |

1. Response

|  |  |
| --- | --- |
| Status | Content |
| **200** | {  "Heartbeat": {  "Id": 0,  "Created": 0,  "LastModified": 0,  "Time": 0,  "Note": "",  "Rate": 0  }  } |
| **400**  Request parameters are invalid. | {  "Errors": ["", ""]  } |
| **401**  No email or password contained in request header. Front-end should redirect user to login page. | {  "Error": "W012"  } |
| **401**  Account has been disabled. | {  "Error": "W002"  } |
| **401**  Account is pending. | {  "Error": "W001"  } |
| **403**  Account is not allowed to access the function. | {  "Error": "W013"  } |
| **404**  **No record is found** | {  "Error": "W006"  } |

1. **Delete**
   * Request

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Url** | | |
| **DELETE** | api/heartbeat | | |
| Type | Params | Values | Description |
| HEADER | **Accept-Language** | string | Language which messages responded from server will be formatted.   * Default : en-US |
| HEADER | **Email** | string | Email which is used for accessing server api. |
| HEADER | **Password** | string | Password of email |
| URL | **Id** | int | Id of heartbeat note   * **Required** * **Default : 0** |

* + Response

|  |  |
| --- | --- |
| Status | Content |
| **200** | (No content) |
| **400**  **Request parameters are invalid.** | **{**  **"Errors": ["", ""]**  **}** |
| **401**  **No email or password contained in request header. Front-end should redirect user to login page.** | **{**  **"Error": "W012"**  **}** |
| **401**  **Account has been disabled.** | **{**  **"Error": "W002"**  **}** |
| **401**  **Account is pending.** | **{**  **"Error": "W001"**  **}** |
| **403**  **Account is not allowed to access the function.** | **{**  **"Error": "W013"**  **}** |
| **404**  **No record is found** | **{**  **"Error": "W006"**  **}** |

1. **Get**
   * Request

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Url** | | |
| **GET** | api/heartbeat | | |
| Type | Params | Values | Description |
| HEADER | **Accept-Language** | string | Language which messages responded from server will be formatted.   * Default : en-US |
| HEADER | **Email** | string | Email which is used for accessing server api. |
| HEADER | **Password** | string | Password of email |
| URL | **Id** | int | Id of heartbeat note   * **Required** * **Default : 0** |

* + Response

|  |  |
| --- | --- |
| Status | Content |
| **200** | {  "Heartbeat": {  "Id": 0,  "Created": 0,  "LastModified": 0,  "Time": 0,  "Note": "",  "Rate": 0  }  } |
| **401**  **No email or password contained in request header. Front-end should redirect user to login page.** | {  "Error": "W012"  } |
| **401**  **Account has been disabled.** | {  "Error": "W002"  } |
| **401**  **Account is pending.** | {  "Error": "W001"  } |
| **403**  **Account is not allowed to access the function.** | {  "Error": "W013"  } |
| **404**  **No record is found** | {  "Error": "W006"  } |

1. **Filter**
   * Request

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Url** | | |
| **POST** | api/heartbeat/filter | | |
| Type | Params | Values | Description |
| HEADER | **Accept-Language** | string | Language which messages responded from server will be formatted.   * Default : en-US |
| HEADER | **Email** | string | Email which is used for accessing server api.   * **Required** |
| HEADER | **Password** | string | Password of email   * **Required** |
| BODY | **Owner** | int | Whose heart rate records the requester want to watch.   * **Null** : requester’s record * **Not null** : another persons’ record. |
| BODY | **MinRate** | double | Minimum rate of heart.   * **Optional** |
| BODY | **MaxRate** | double | Maximum rate of heart.   * **Optional** |
| BODY | **MinTime** | double | Time after which measurement was done.   * **Optional** |
| BODY | **MaxTime** | double | Time before which measurement had been done.   * **Optional** |
| BODY | **MinCreated** | double | Time after which note was created.   * **Optional** |
| BODY | **MaxCreated** | double | Time before which note had been created.   * **Optional** |
| BODY | **MinLastModified** | double | Time after which note was modified.   * **Optional** |
| BODY | **MaxLastModified** | double | Time before which note had been modified.   * **Optional** |
| BODY | **Note** | string | Content of note.   * **Optional** |
| BODY | **Sort** | int | What property should be used for sorting.   * **0: Time** * **1: Created** * **2 : Last modified**   **Default: Time** |
| BODY | **Direction** | int | Whether records should be sorted ascendingly or decendingly.   * **0 : Ascending** * **1: Decending**   Default : Decending. |
| BODY | **Page** | int | Index of page which result will be displayed.   * **Min : 1** * **Default : 0** |
| BODY | **Records** | int | Number of records which will be displayed on page.   * **Min : 0** * **Max : 20**   Default : 20 |

* + Response

|  |  |
| --- | --- |
| Status | Content |
| **200** | {  "Heartbeats": [  {  "Id": 0,  "Created": 0,  "LastModified": 0,  "Time": 0,  "Note": "",  "Rate": 0  }  ],  "Total": 0  } |
| **400**  **Request parameters are**  **invalid** | {  "Errors": [ "", "" ]  } |
| **401**  **No email or password contained in request header. Front-end should redirect user to login page.** | {  "Error": "W012"  } |
| **401**  **Account has been**  **disabled.** | {  "Error": "W002"  } |
| **401**  **Account is pending.** | {  "Error": "W001"  } |
| **403**  **Account is not allowed to access the function.** | {  "Error": "W013"  } |
| **403**  **Requester doesn’t have any relationship with the owner of note.** | {  "Error": "W019"  } |